

Joint Expeditionary Force eXperiment



USAF
C2 Training and
Innovation Group



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JEFX Live
Fly
Overview

**"Nothing harder than putting a
new idea into the military mind ...
except removing the old one"**

**Liddell-
Hart**



JEFX Planning
Team





Live Fly Overview

Millennium Challenge 2000



USA
JCF / AWE

Moving Forward Together

USJFCOM



USN

FBE-H



USAF
JEFX 2000

JV 2010



USMC
Millennium Dragon

First Large Scale Joint Warfighting



LF PLANNING TIMELINE





Execution Schedule

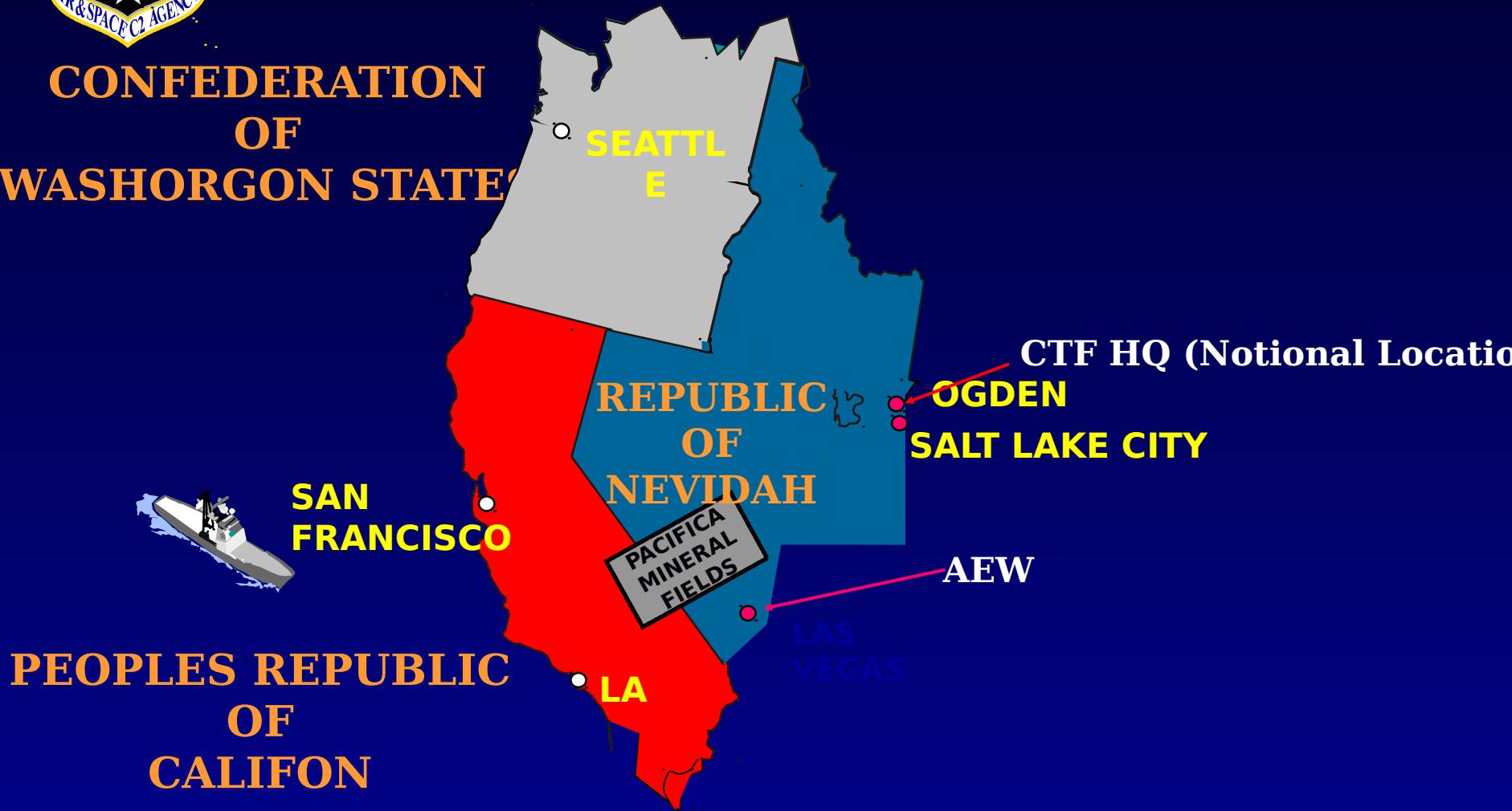
Aug - Sep 00

SUN		MON	TUE	WED		THU	FRI
Aug 27	Aug 28	Aug 29	Aug 30	Aug 31	1	2	
	New Players Travel & In-		Tm Leads Travel & In-process	Returnees Travel & In-	Mass In-brief	ATO Execution & Process Practice	
System Checkout			Initial Training process		Team Building		
3	4	5	6	7	8	9	
Backup Day	ATO Execution & Process				Argon Paradrop CSAF Hurlburt	Integrate LF ATO; Nellis Fam	
	8AF/CC	COMAC C Hurlburt					
10	11	13	14	15	16		
Backup Day & Live-fly In-brief	Full-up Operations (Constructive, Virtual & Live Fly)			MainEx Hotwash 1 & 2	O-5/Below Cell Lead Assessment Mtg		
	COMAC C Nellis	COMAC C Suter	COMAC C UpRange	COMAC C Langley			

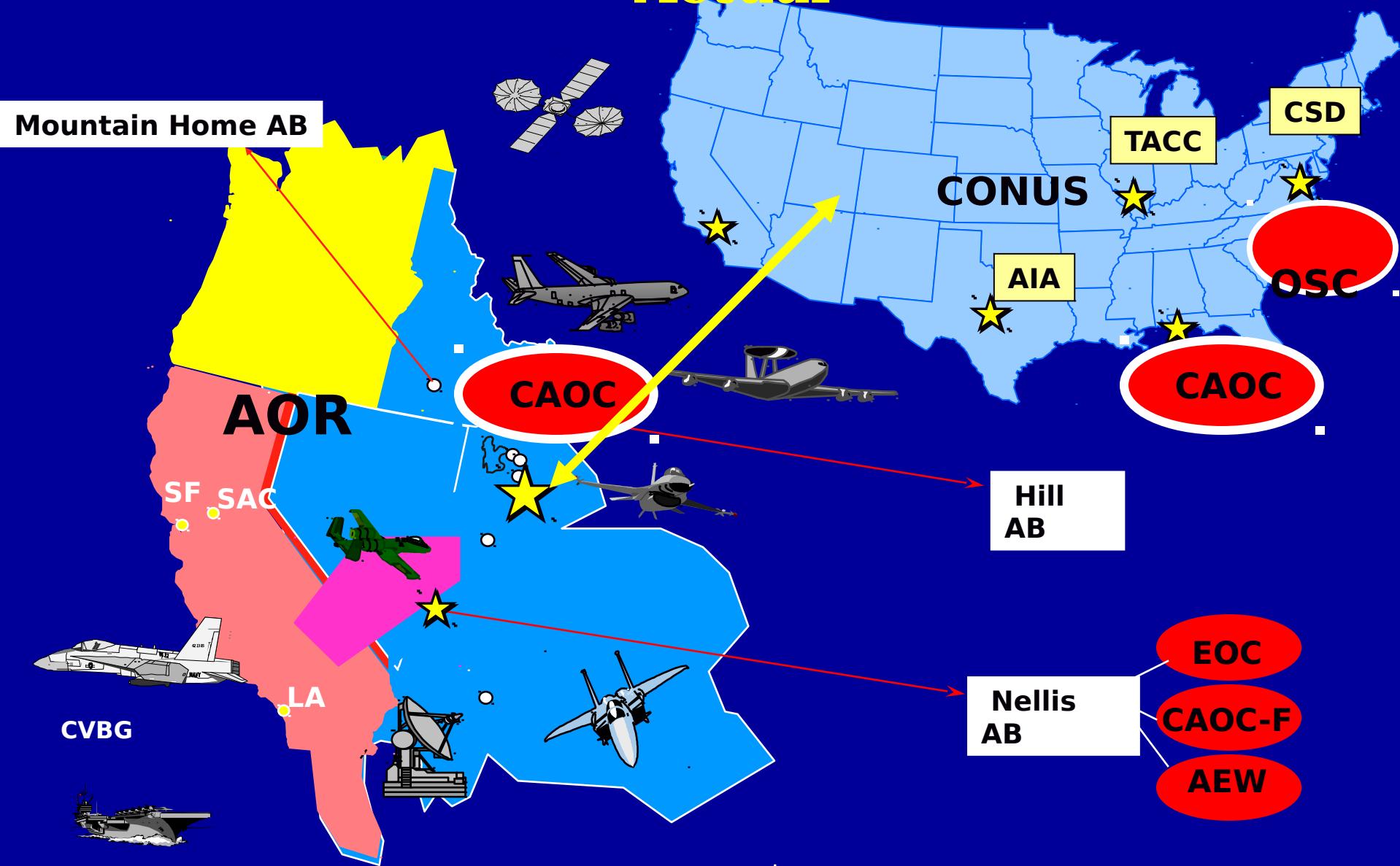


Island of Pacifica

CONFEDERATION
OF
WASHORGON STATE



JETX 00 Notional vs. Actual



JEFX 00 Live-Fly Players

53 AEW

- 2xA-10 (SADL/GW) 53 WG
- 4xF-15E (FDL/-14) 53 WG
- 6xF-15E (-14) 366 WG
- 6xF-15C (Link-16) 53 WG
- 5xF-16CJ (HTS/IDM) 53 WG
- 6xF-16CJ (HTS/IDM) 20 FW
- 2xF-16CG (IDM) 53 WG
- 3xB-1 (CT II, MSTs, MTI) 53WG
- 4xF-16 (SADL/GW) ANG
- 2xHH-60 (SADL/GPRS) 53 WG
- 2xF117 49FW

Others

- 3xEA-6B USN
- 1xEC-130H (C-Call) AFMC
- 2xKC-135 (Gateway) 366 WG
- 5xKC-135 (AR) AMC
- 1xMC-130E (BRITE) AFSOC
- 1xEC-130 (C-Solo) ANG
- 1xAH-64 (IDM) USA
- 7xF-18 (Red Air) USMC

AOC/ISR/STRAT

- 2xE-3 552 ACW 93 ACW
- 2xE-8 55
- 2xRC-135 WG/AFMC
- 1xU-2 (ASARS/SIGINT) 9 RW
- 1xB-2 (CT II) 53 WG
- 1xB-52 (CT II) 53 WG
- 1xGH (SAR) ASC
- 2xPredator (EO/IR) 11 RS
- 1xTwin Otter (HSI) AFMC
- 1xD 2 / SBR (MTI) SWC
- 1xC-130 (HSI) ANG
- MC-00/JRTC
- 6xA-10/OA-10 23 FG
- 17xC-130 (IFGR/EMPRS) AMC
- 1xC-135 (EMPRS) AFRL
- 2xF-16 (SADL) AFR
- 1xTwin Otter (HSI/HARP) AFMC
- 1xWB-57 (HSI/SHARP) NASA
- **Green = Off-Station Players**

JEFX 2000 BEDDOWN

US/ALLIANCE AF Assets

Mountain Home (KMUO)

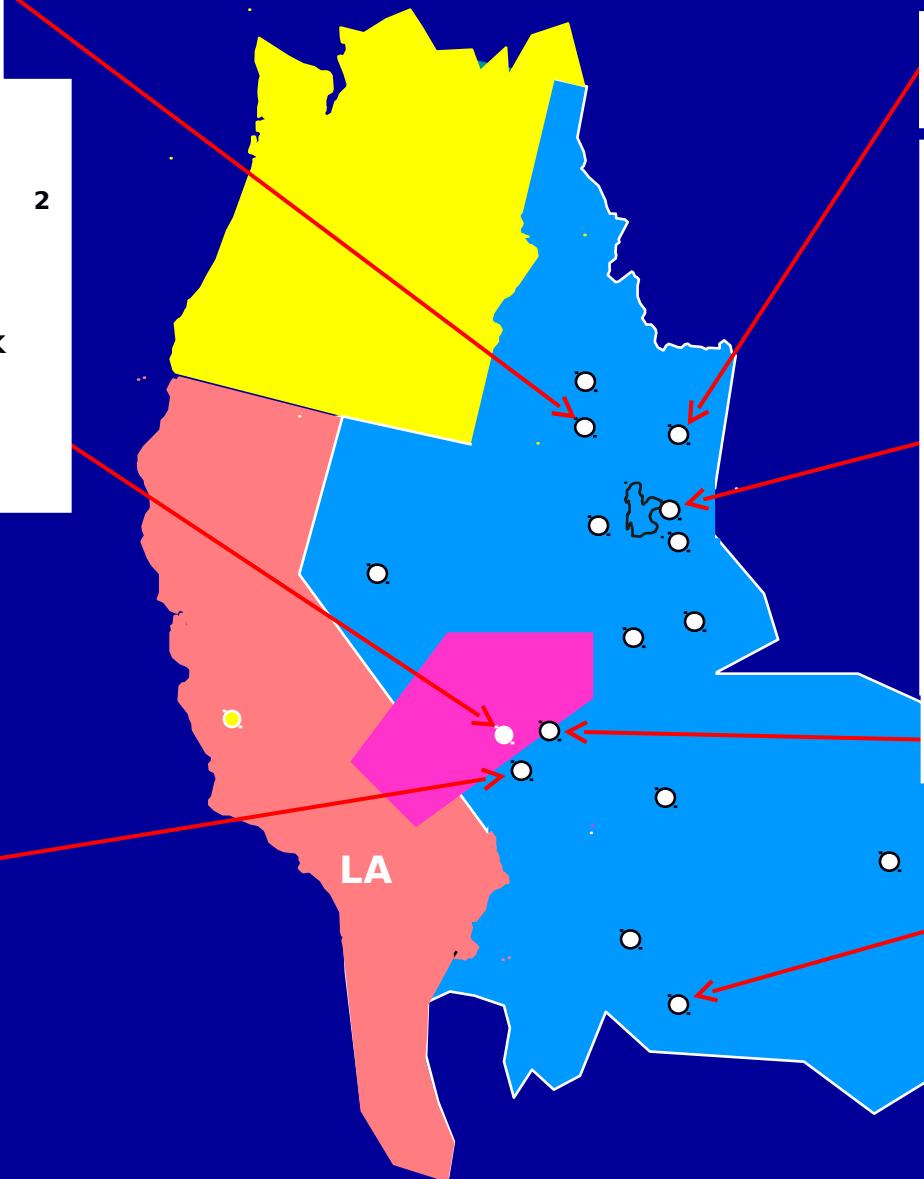
390FS	F-15C	18
20FS	F-16	12
389FS	F-16CJ	12
344ARS	KC-135R	12
7FS	F-117	6
34BS	B-1	6
2AS	C-130H	2

Indian Springs (KINS)

11 RS	RQ-1 PREDATOR	
12		
95RS	TWIN OTTER	2
15RS	ISLANDER C3-10	
1		
5RS	DISCOVER II T-39	
1		
99RS	RQ-4 GLOBAL HAWK	
2		
55FS	A-10	
12		
66RQS	HH-60	
3		

Incident (KINDV)

336 FS	F-15E	18
391 FS	F-15E	18
58 FS	F-15C	18
77 FS	F-16CJ	12
78 FS	F-16CJ	12
152 FS(ANG)	F-16CG	12
22 ARS	KC-135R	8
384 ARS	KC-135R	8
VMAQ-1	EA-6B	4
75FS	A-10	12
45RS	RC-135 RJ	4
964AACCS	E-3/AWACS	3
12ACCS	E-8/J-STARS	2
41RQS	HH-60	4
41ECS	EC-130H	4
101 AV BN	AH-64	8
4FS	F-16CG	12
VF-41	F-14D	6
8FS	F-117	6
28BS	B-1	6



Whiteman (KSZL)

325BS	B-2	6
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Barksdale (KBAD)

20BS	B-52H	6
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Pocatello (KPIH)

39AS	C-130H	8
11ALS	C-21	2

Hill (KHIF)

1RS	U-2	2
11FS(CAN)	CF-18	18
1DET(CAN)	CC-130	4
2DET(CAN)	KC-130	2
311FS(NE)	F-16A/B	12
13FS(UK)	TOR. GR1A	12
4FS(UK)	HARRIER GR7	12
72FS(GE)	GR-4	12
4407RS	RC-135 R/J	2
963AACCS	E-3/AWACS	4
16ACCS	E-8/J-STARS	2
43ECS	EC-130H(CC)	3
94FS	F-22 RAPTOR	12
349ARS	KC-135R	12
38RS	ABL	2
55 WING	RC-135S (CB)	4
82RS	NKC-135	1

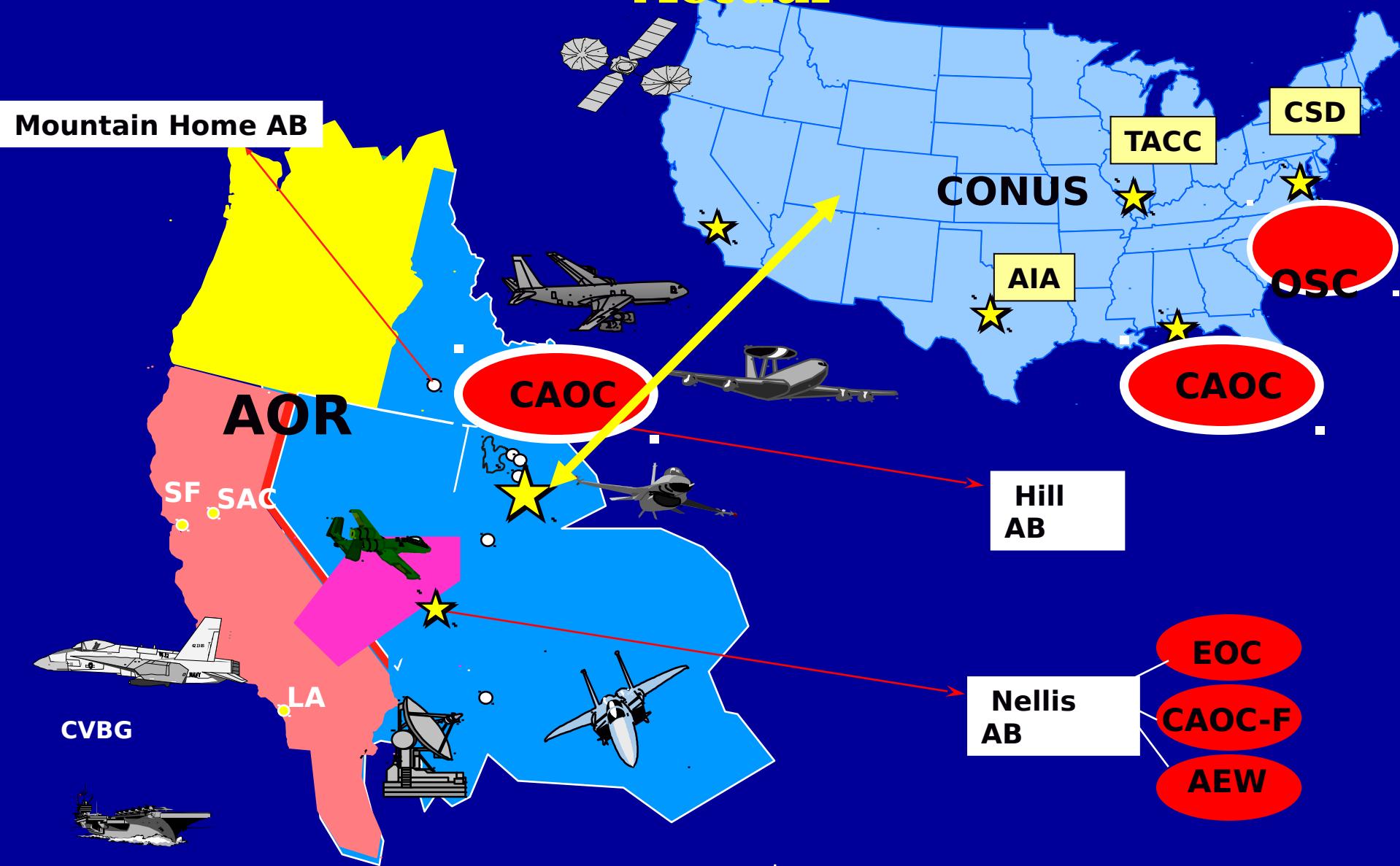
Cedar City (KCDC)

27FS	JSF	12
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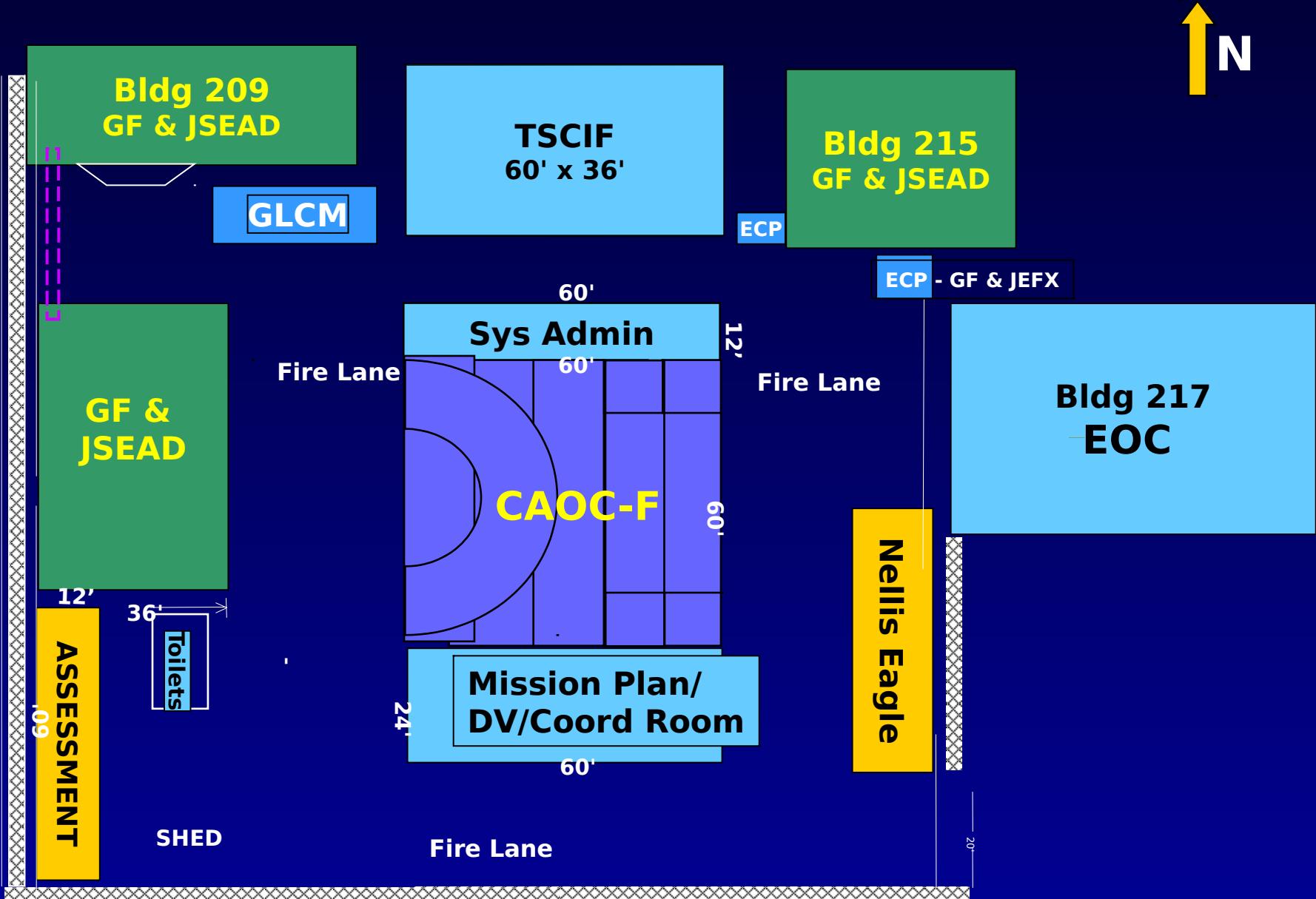
Davis-Monthan (KDMA)

193SOS	EC-130(CS)	1
9SOS	MC-130P	4
8SOS	MC-130E	4
VQ-1 DET	EP-3	3
VP-16	P-3C	6
40AS	C-130H	8
3-160SOAR	MH-60K	3
1-160SOAR	MH-47E	8
4SOS	AC-130U	4
20SOS	CV-22	4
47AS (UK)	C-130K	2
15SOS	MC-130H	4

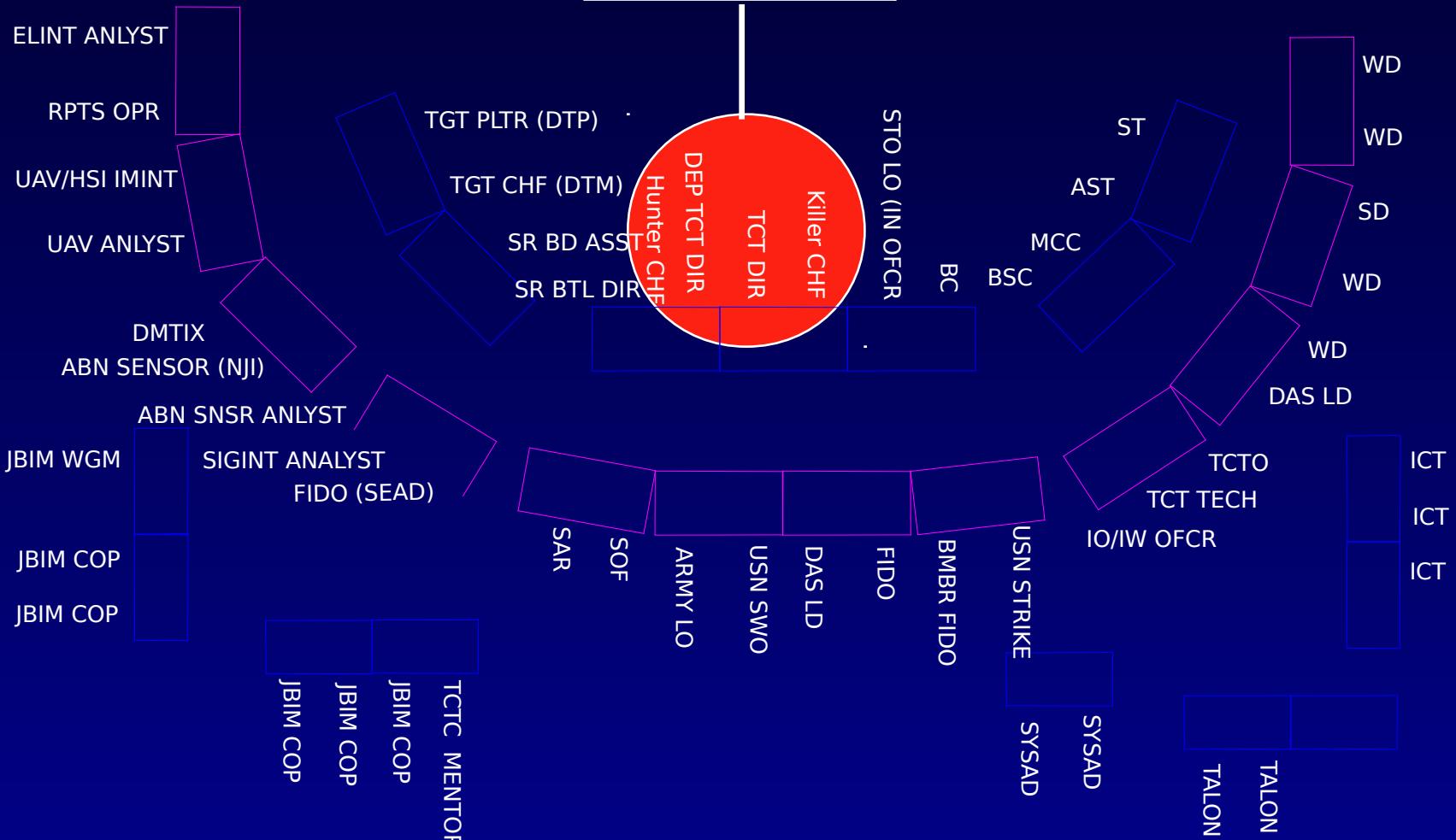
JETX 00 Notional vs. Actual

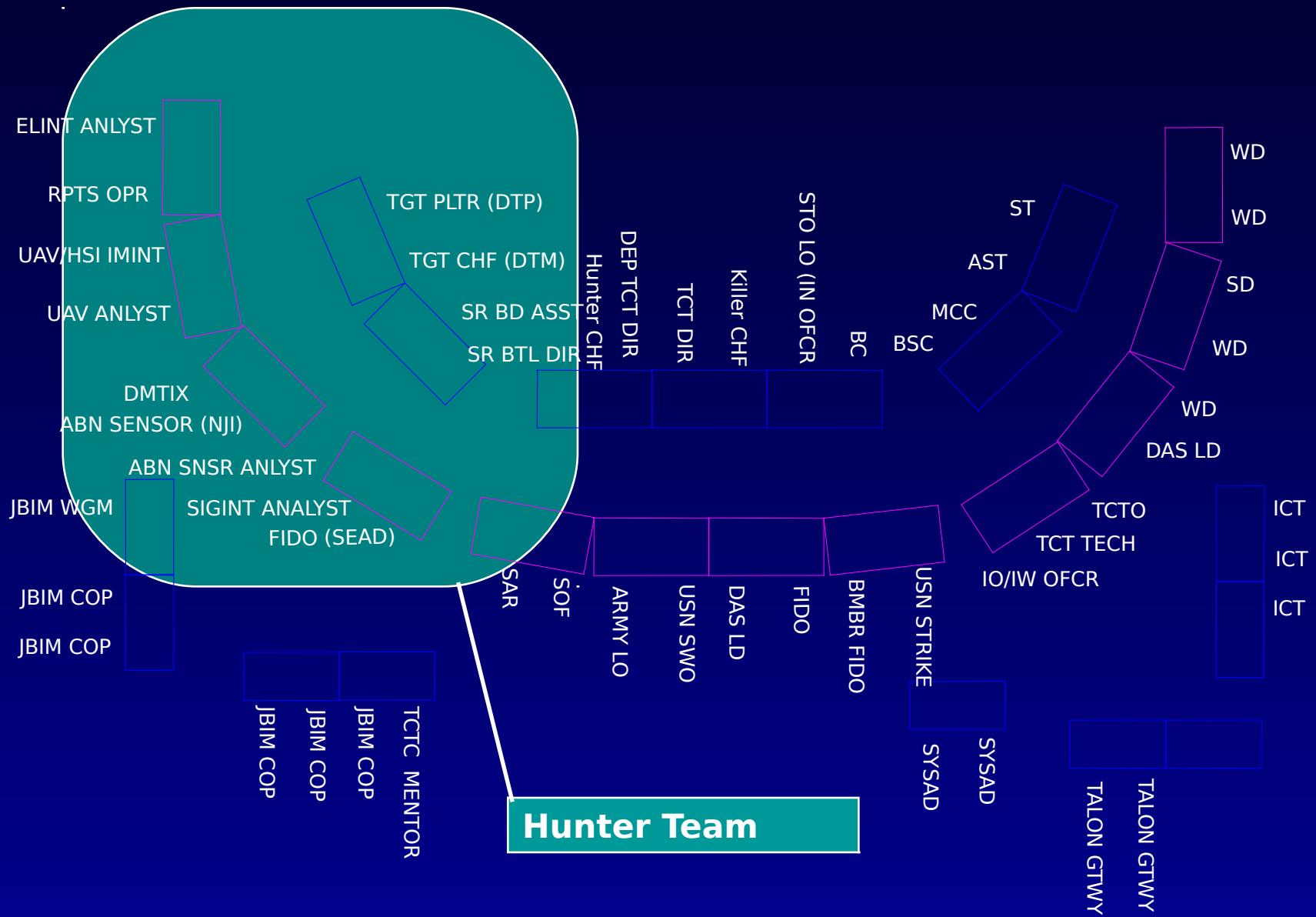


JEFX 00 CAOC Forward & EOC

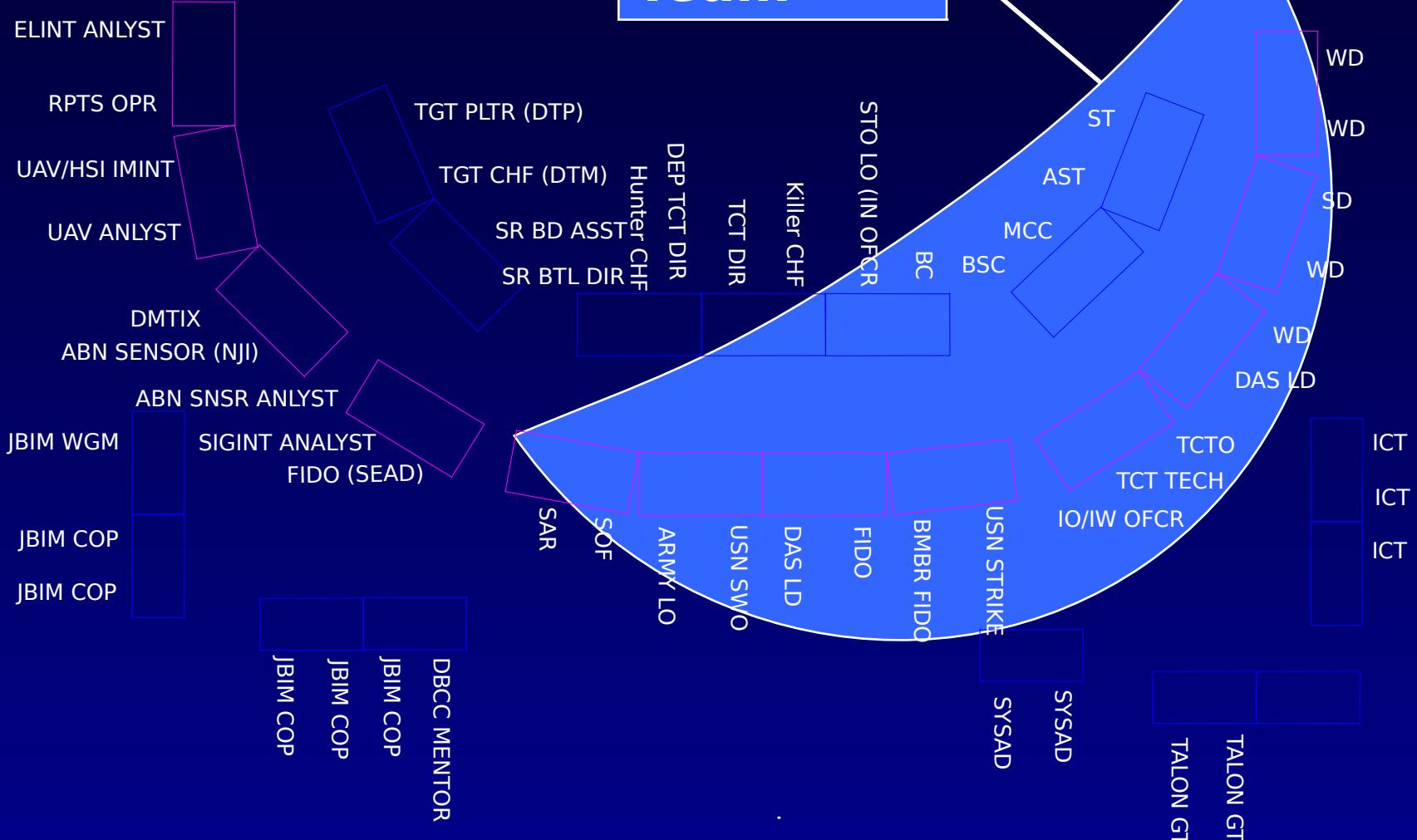


Command Positions





Killer Team



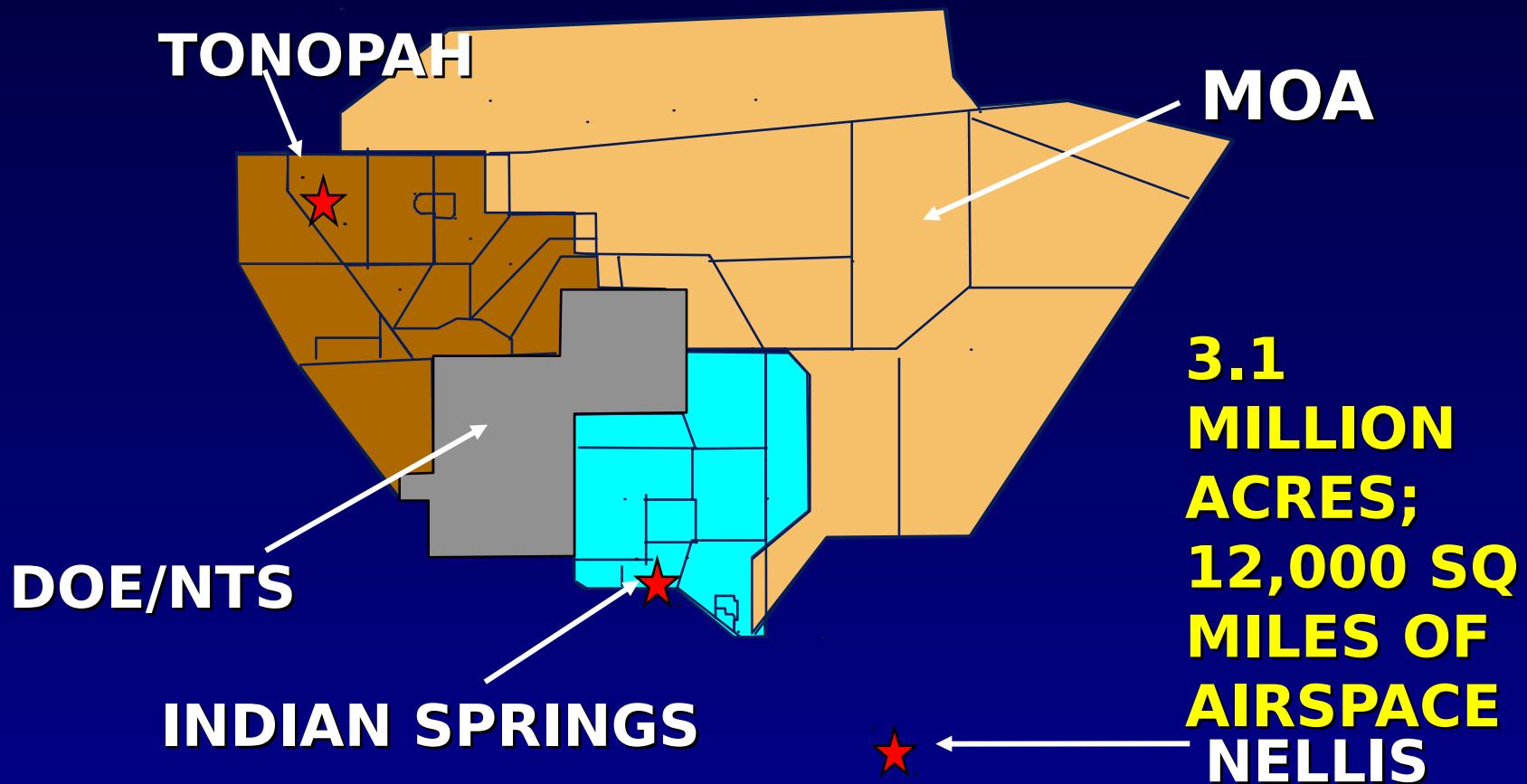


WESTERN RANGES





NELLIS RANGES





REALISTIC TARGETS & THREATS



**4 SCUD TELs
2 Support Battalions
2 Decoy TELs
1 Ea SA 6/8
3 Convoys
35 Total (GPS)**



Mobile Targets



JEFX Threat Arena

ACQ, HF, ZSU

3, 6, 8, 10, 11, ROL

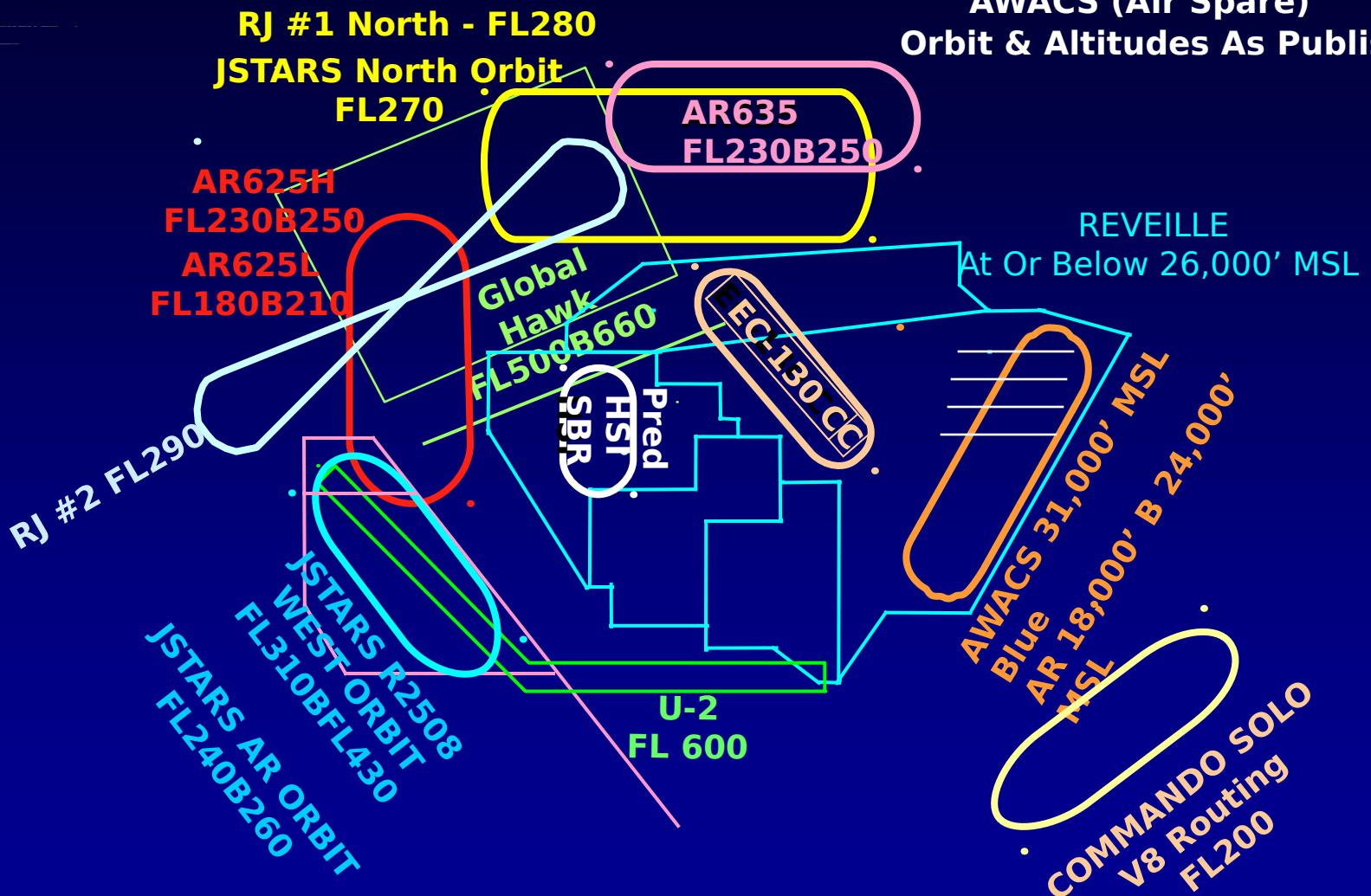
Total 30

- Kill Criteria

UNCLASSIFIED

JEFX 2000 Orbits

ELY ORBIT
AWACS (Air Spare)
Orbit & Altitudes As Published



UNCLASSIFIED

JEFX PLAYER BLOCKS 1200 -1330 (Pacific)

30-40000 MSL for
SBR (31K)



BLUE AIR
15-30K

15-30000 MSL
Surface (100') to 2K AGL
No Red Air



13-14000 MSL

TWIN OTTER



10-12000 MSL

Predator / T-
Otter Blocks



Nellis Range

Peaks are at 5500' - Peaks at 8-9,000'
5500 MSL - 9,000 MSL Typically

50-60 MSL
G Hawk/U-2

30 - 40 MSL

15-30 MSL

10-14 MSL

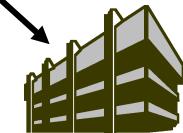
Surf - 2K AGL
(~6kMSL - 8 k
MSL)



CAOC-F
Nellis AFB

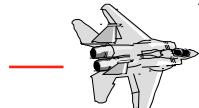


AFOSC
Langley AFI



CAOC
Hurlburt

JEFX PLAYER BLOCKS 1330 - 1600 (Pacific)



20-24000 MSL & 30-34000 MSL



5-9s & 40-44000 MSL
Surface (100') to 2K AGL
Blocks start at 15,000 MSL



TWIN OTTER

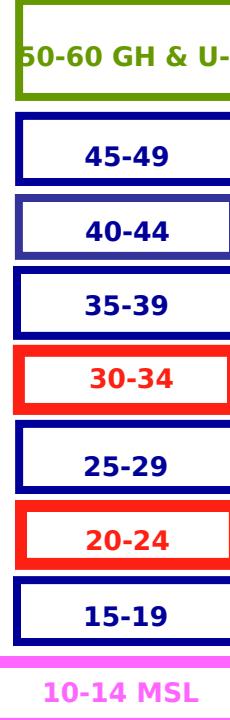


10-12000 MSL



Nellis Range

Heights are at 5500' - Peaks at 8-9,000'
at 5500 MSL - 9,000 MSL Typically



CAOC-F
Nellis AFB

(~6kMSL - 8 k MSL)

Tactical Comms



AFOSC
Langley AFI



CAOC
Hurlburt

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First Large Scale Joint Warfighting

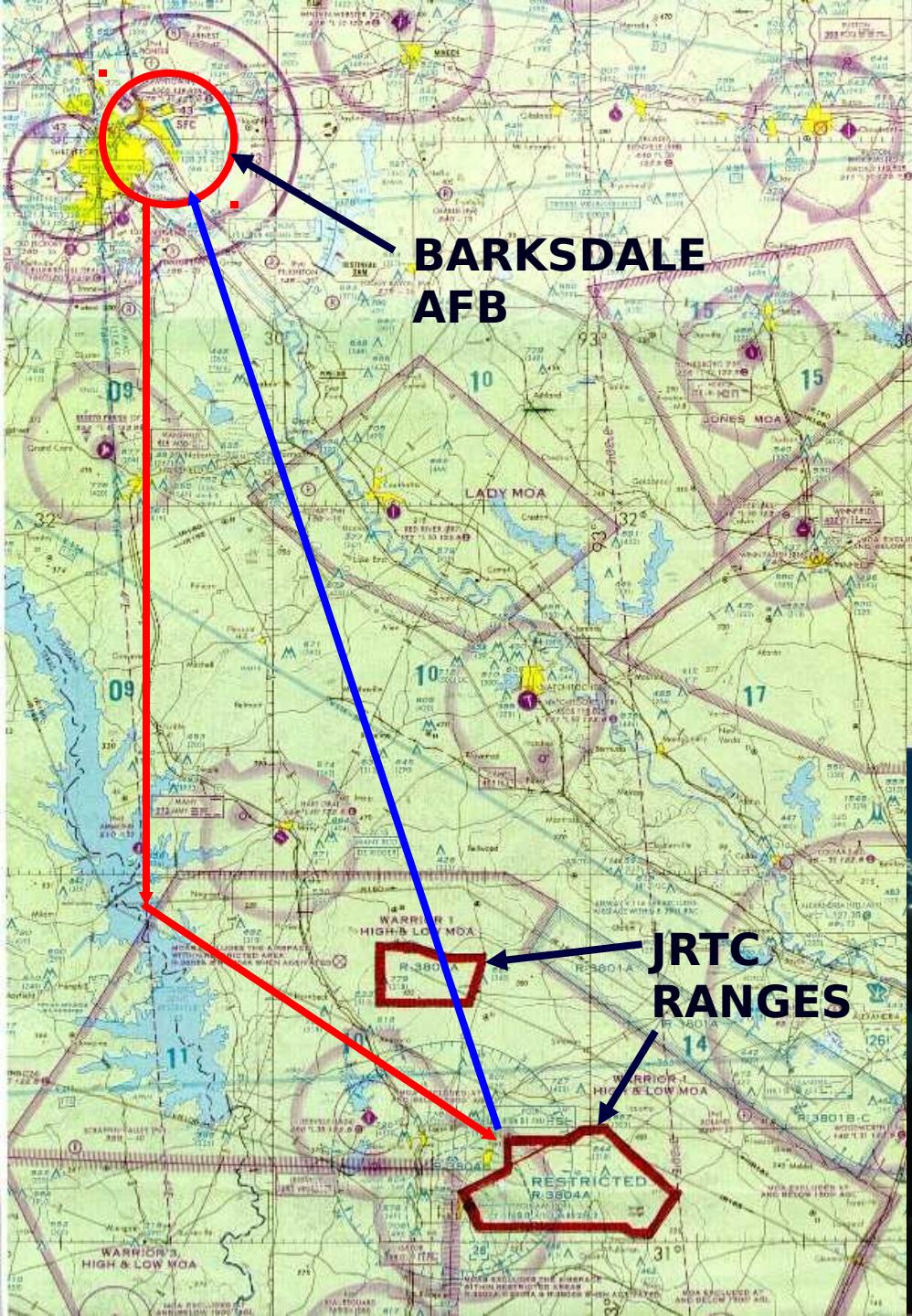


Island of Aragon



Fixed wing CAS / FAC-A operations from Barksdale

- 100 miles from battlefield
- Jets arrive 6-7th, Airdrop 8 Sept
- Phases: Insert+5 LIC/Def/Off





JEFX 2000 Live Fly

11 - 14 Sept '00

- **Wed-Thurs (6-7 Sept): Air Warrior Arrival/Fam**
- **Fri Night (8 Sept): JRTC Airdrop (0100Z, 9 Sept)**
- **Saturday (9 Sept): D-Day, Nellis Arrival/Fam**
- **Sunday (10 Sept): Live Fly AircREW Inbrief (1700Z)**
- **Monday - Thursday: (11-14 Sept): Single go days**
- **Friday (15 Sept): Hotwash**

- **One AEW**
- **Adjust threat arena downward**
- **Four hours of range time (vs. 2 x 3 hrs)**



Live Fly Status



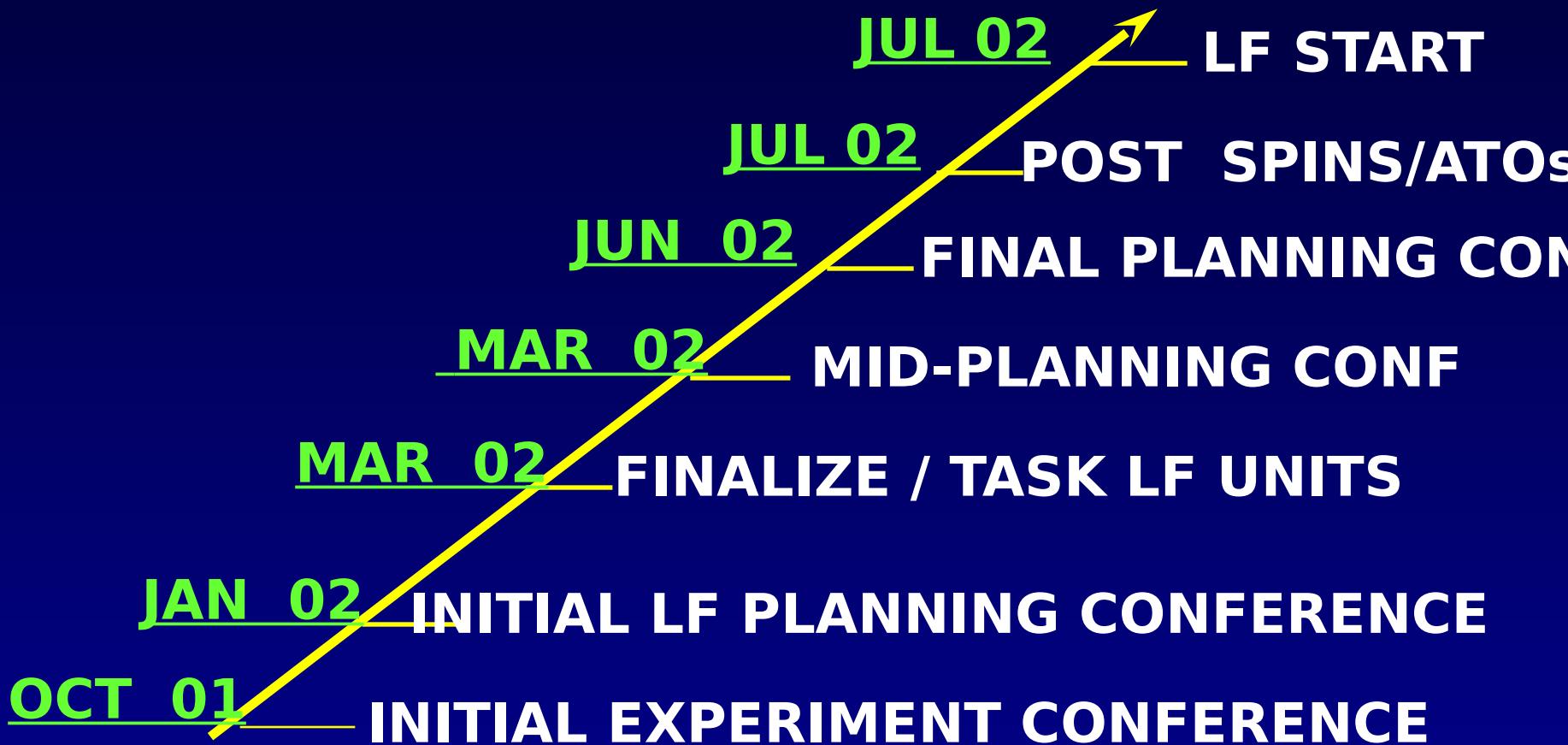


JEFX 02 Live Fly

- **Activity will support the four major focus areas:**
 - Time critical targeting (TCT)
 - C2 of Intelligence, Surveillance & Reconnaissance
 - Reduced CAOC “footprint”
 - Alliance integration
- **Single AEW at Nellis AFB**
 - CAOC will be at Nellis
 - Global Strike Task Force sorties in support of MC
 - Flying days/window TBD
 - Need joint partners to define USAF



LF PLANNING TIMELINE



Proposed JEFX 02 AF Live-Fly Players

AEW

- 8xA-10
- 10xF-15E
- 6xF-15C
- 10xF-16CJ
- 8xF-16CG
- 2xB-1
- 1xHH-60
- 1xF117

Others

- 6xKC-135

AOC/ISR/STRAT

- 2xE-3
- 1xE-8
- 1xRC-135
- 1xU-2
- 2xB-2
- 1xB-52
- 1xGH
- 2xPredator

- **Total 63**

Proposed MC Live Execution Schedule

18 Jul - 9 Aug 02

SUN		MON	TUE	WED		THU	FRIDAY
Jul 21	Jul 22	Jul 23	Jul 24	Jul 25	Jul 26	Jul 27	
			Airdrop NTC				
		GSTF Sorties		IBCT NTC	Nellis LF Arrival		
			STOM				
Jul 28	Jul 29	Jul 30	Jul 31	Aug 1	Aug 2	Aug 3	
LF Inbrief	JEFX Live Fly Execution (AFEO)					LF B/U	
Aug 4	Aug 5	Aug 6	Aug 7	Aug 8	Aug 9	Aug 10	
	JEFX Live Fly Execution (C2TIG)						

The Focus of Live Fly

Find-Fix- Track-Target-Engage-Assess (F2,T2EA)



Live Fly Overview

Questions...

